

Design Statement

I am the applicant (Paul Kopik) for a new self build nZEB dwelling on this site fronting Naildown Close and positioned to the rear portion of "Steps", Cliff Road, Seabrook.

I have recently completed post graduate studies (at level 9, with distinction) in Digital Analysis & Energy Retrofit focusing on zero energy building at the Dublin School of Architecture (DIT). This course is run in conjunction with nine other universities throughout Europe. These post graduate studies have augmented my previous studies, many years ago, in architecture and low energy design.

The proposed design for this house is essentially a passive house (to PHPP) to achieve, yearly, net zero energy. It is designed (significantly) from a fabric first approach and complies with the EU directive 2016/1318. I used this house design as my final study project for the post graduate course. I enclose my year end submission for the post graduate course to support the credentials of the design. The above EU directive requires that all new build dwellings from 01 January 2020 must achieve the minimum standards as set out in the directive. My actual design regarding the current planning application has slightly evolved to incorporate extra PV panels (in a building integrated roof) to supply a diurnal shift battery bank located within the house. This should ensure that the energy use of the house should be met almost entirely by on site generated renewable energy with surplus generation to the grid.

A cost optimal study was also carried out and indicates that this complete design should not be more expensive than a traditional method of construction.

Paul Kopik

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Encl. Pages 1-3 at A3 landscape sheets (PG study as indicated above).